

Amendments to the Claims:

1-6 canceled.

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7. (Currently Amended) An optical pickup head which makes a fine movement by a driver, and focuses an incident laser beam to a recording medium for recording/reproducing a data, the optical pickup head comprising:

a micro mirror having at least one approximately 45° mirror surface for reflecting the incident laser beam perpendicular to an incident direction;

a focusing lens under the micro mirror for primary focusing of the laser beam reflected at the micro mirror;

~~a first supporting frame fitted under the micro mirror for supporting the focusing lens;~~

an SIL (Solid Immersion Lens) under the focusing lens for secondary focusing of the laser beam focused primarily; and,

~~a second supporting frame fitted under the first supporting frame for supporting the SIL;~~

a supporting frame for integrating the micro mirror, the focusing lens and the SIL (Solid Immersion Lens).

8. (Original) An optical pickup head as claimed in claim 7, wherein the 45° mirror surface of the micro mirror has a highly reflective metal coating applied thereto.

9. (Original) An optical pickup head as claimed in claim 7, wherein the micro mirror is formed of a silicon substrate.

10. (Original) An optical pickup head as claimed in claim 9, wherein the silicon substrate is a 9.74° off-axis (100) silicon wafer.

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11. (Canceled)

12. (Original) An optical pickup head as claimed in claim 7, wherein the 45° mirror surface of the micro-mirror, a focus plane of the focusing lens, and a focus plane of the SIL are aligned in parallel.

13. (Currently Amended) An optical pickup head which makes a fine movement by a driver, and focuses an incident laser beam to a recording medium for recording/reproducing a data, the optical pickup head comprising:

a micro mirror having at least one approximately 45° mirror surface for reflecting the incident laser beam perpendicular to an incident direction;

a focusing lens under the micro mirror for primary focusing of the laser beam reflected at the micro mirror;

~~a first supporting frame fitted under the micro mirror having an opening in a region for supporting the focusing lens;~~

an SIL (Solid Immersion Lens) under the focusing lens for secondary focusing of the laser beam focused primarily;

~~a second supporting frame fitted under the first supporting frame having an opening in a region for supporting the SIL; and,~~

a supporting frame for integrating the micro mirror, the focusing lens and the SIL (Solid Immersion Lens); and

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con an air-bearing surface formed under the ~~second~~ supporting frame for making the ~~second~~ supporting frame buoyant.

14. (Original) An optical pickup head as claimed in claim 13, wherein the 45° mirror surface of the micro mirror has a highly reflective metal coating applied thereto.

15. (Original) An optical pickup head as claimed in claim 13, wherein the micro mirror is formed of a silicon substrate.

16. (Original) An optical pickup head as claimed in claim 15, wherein the silicon substrate is a 9.74° off-axis (100) silicon wafer.

17. (Canceled)

18. (Original) An optical pickup head as claimed in claim 13, wherein the 45° mirror surface of the micro-mirror, a focus plane of the focusing lens, and a focus plane of the SIL are aligned in parallel.

19. (Original) An optical pickup head as claimed in claim 13, wherein the opening has a side surface sloped at a fixed angle such that an upper width thereof is greater than a lower width thereof.

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20. (Original) An optical pickup head as claimed in claim 13, wherein the SIL is fitted
in the opening of the second supporting frame.
